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"kernel space" data management policy system

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**[PDF] Linux security module framework**

C Wright, C Cowan, J Morris, S Smalley, G Kroah ... - Ottawa Linux ..., 2002 - Citeseer

... Ottawa Linux Symposium 2002 606 User Level process open **system call Kernel space** inode Access Look up ... The sk\_buff structure provides storage for packet **data** and related state information, and is ... A set of sk\_buff hooks is provided for lifecycle **management** of the security ...

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**[PDF] Distributed Systems**

M Van Steen - IEEE concurrency, 1999 - Citeseer

... sys- tem provides only mechanisms: Allow (dynamic) setting of caching **policies**, prefer- ably ... Replication: Make copies of **data** available at differ- ent machines: Replicated file servers ... to maintain global memory map in software Inherent distributed resource **management**: no cen ...

Cited by 336 · Related articles · View as HTML · BL Direct · All 83 versions

**AMnet 2.0: An improved architecture for programmable networks**

T Fuhrmann, T Harbaum, M Scholler, M ... - Lecture Notes in ..., 2002 - Springer

... Of critical malfunctions is much smaller when using **user-space** code than with **kernel-space** code ... For inspection of the TCP content, we can, eg, redirect the **data** stream to a local ... connections can eg be stored in the EE using the appropriate helper functions for list **management**. ...

Cited by 24 · Related articles · BL Direct · All 22 versions

**Security issues surrounding programming languages for mobile code: Java vs. ...**

S Gritzalis, G Aggelis - ACM SIGOPS Operating Systems Review, 1998 - portal.acm.org

... programming languages were designed for building components where the complexity is in the **data** structures and ... Like the trusted interpreter, **kernel space** in operating systems has complete access to all of the **system's ... management, certificate management** and access control ...

Cited by 9 · Related articles · BL Direct · All 3 versions

**[PDF] Fidran: A flexible intrusion detection and response framework for active ...**

A Haas, M Jung, G Schäfer - Proc. of 8th IEEE Symposium on Computers ..., 2003 - Citeseer

... never become the target of an attack, due to irregular on-line times, chang- ing IP-addresses or having the perception that their **system** or **data**, respectively, is ... FIDRAN User-Space Module 1 FIDRAN Management Module Insert Op Module (after **policy** checking) ... Kernel Space ...

Cited by 15 · Related articles · View as HTML · All 13 versions

**[PDF] An active router architecture for multicast video distribution**

R Keller, S Choi, M Dasen, D Decasper, G Fankhauser, ... - IEEE INFOCOM, 2000 - Citeseer

... Source Port Destination Port UDP checksum UDP length UDP WaveVideo **Data** Page 3. ... It forwards requests from the kernel to other plu- gin **management** modules and vice versa. • **Policy Controller** (PoC): the PoC deals with **policy** rules set by the router's administrator. ...

Cited by 119 · Related articles · View as HTML · BL Direct · All 18 versions

**Router plugins: a software architecture for next-generation routers**

D Decasper, Z Dittia, G Parulkar, B ... - IEEE/ACM Transactions ..., 2000 - portal.acm.org

... High performance is guar- anteed only in part through a fully **kernel space** im- plementation, which ...

that are envisioned include a plugin for statistics gathering (useful for network monitoring/**management**), a plugin ... 3 The mbuf is a **data structure** that is used to store packets and ...  
Cited by 291 - Related articles - BL Direct - All 32 versions

**Arrow: A flexible architecture for an accounting and charging infrastructure in the ...**  
G Fankhauser, B Stiller, B Plattner - Netnomics, 1999 - Springer  
... In conjunction with communication protocols responsible for **data transport** and resource **management** protocols ... Although access to packet **data** in **user-space** is much slower and not ... and accounting architecture based on Crossbow is divided along the user-kernel-space line as ...  
Cited by 36 - Related articles - All 12 versions

[PDF] **Service Level Instrumentation 101-An In-Depth Look at How to Instrument ...**  
SE Smead - CMG-CONFERENCE-, 1998 - cmg.org  
... TCP/IP NETWORK DRIVER INTERFACE NETWORK **DATA** LINK/PHYSICAL CORE KERNEL SERVICES **Kernel Space User Space** ... Figure 1. Service Level Instrumentation in the Application Stack Performance **management** Agent Function/**System Call** Interface ...  
Cited by 2 - Related articles - View as HTML - BL Direct

**Secure communications in ATM networks**  
... C Delahaye, H Leitold, R Posch, ... - IEEE 15th ..., 1999 - doi.ieeecomputersociety.org  
... The SP (**Security Policy**) module allows users (or the security officer) to inform the IE/OAM module of the security **policy** (cf. ... The KM (**Key Management**) module implements ... Contrary to the IE/OAM module, it has access to the **data** traffic so it is required to inform the IE/OAM of the ...  
Cited by 2 - Related articles - All 9 versions

[PDF] **Practical programmable packets**  
JT Moore, M Hicks, S Nettles - IEEE INFOCOM, 2001 - Citeseer  
... to compute a maximum size for a packet buffer, thus avoiding high memory **management** costs during ... sending a packet takes  $C \cdot \phi$  time, as does deliver- ing **data** with demux. ... As we gain more experience with SNAP, we expect to develop more insight into reasonable **policies**. ...  
Cited by 105 - Related articles - View as HTML - BL Direct - All 19 versions

**A practical learning-based approach for dynamic storage bandwidth allocation**  
V Sundaram, P Shenoy - Lecture notes in computer science, 2003 - Springer  
... These arguments motivate the need to automate simple storage **management** tasks so as to make the ... Since **data** accessed by applications may be stored on overlapping set of storage devices, the ... Further, the **system** state by itself does not reveal if a particular class has met its ...  
Cited by 13 - Related articles - BL Direct - All 13 versions

**Implementation of IPv6 in 4.4 BSD**  
DL McDonald, RJ Atkinson, BG Phan, CW Metz, KC ... - 1996 - Storming Media  
... **Kernel space** ... into the Key Engine to obtain Security Association **data** for the outgoing packet. ... If no appropriate Security Associ- ation exists and a key **management** daemon is run- ning, then the Key Engine sends a Request message to that daemon and informs the output **policy** ...  
Related articles

[PDF] ... **Server and Secure Session Server into the LINUX Operating System**  
MV Glover - 2001 - dtic.mil  
... multitasking, and more advanced memory **management**. 5. Advantages of Linux vs. ... single processor and lack the ability to protect their **data** structures from concurrent access ... supporting only a single type of file **system**, process scheduling **policy**, and executable format. ...  
View as HTML - All 9 versions

[PS] **A client/server based multiparty teleconferencing system and its lip ...**  
M Tan - 1996 - historical.ncstrl.org

... network, so the destination machines can consume most of **data** generated by the source in time with acceptable jitter and intra-stream skew. Based on this **policy**, light-weighted ... **management** is left to the operating **system** and the threads are scheduled transparently by ...

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### Creation of reconfigurable hardware objects in PVM environments

GM Megson, RS Fish, DNJ Clarke - Lecture notes in computer science, 1998 - Springer

... U ] **Kernel Space** i s ... the time for generating (or choosing) an Hardware Object and downloading must be small compared with the actual run-time of the object on a **data** set ... Algorithmic Skeletons: Structured **Management** of Parallel Computation, MIT Press, Cambridge, MA., 1989 ...

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### [PDF] Combining multiple intrusion detection and response technologies in an ...

A Hess, M Jung, G Schaefer - Proc. of 17th DFN-Arbeitstagung über ..., 2003 - Citeseer

... Finally, the task of the storage mechanism is to log a specified amount of packets and additional information in order to make this **data** available to the network ... It registers / unregisters the op-modules which are loaded / unloaded into **kernel space** by the **management** module ...

[Cited by 1](#) - [Related articles](#) - [View as HTML](#) - [All 9 versions](#)

### Supporting distributed multimedia applications on ATM networks

D Saha - In Ph. D. Dissertation, 1995 - eprints.kfupm.edu.sa

... because protection boundaries are crossed in copying **data** from the user to the **kernel space** and vice ... and the operating system no longer need to control I/O transfers, I/O **data** path can bypass the ... Due their non-work-conserving service **policy**, both SG and HRR fail to exploit the ...

[Cited by 10](#) - [Related articles](#) - [View as HTML](#) - [All 4 versions](#)

### "Topologies"—distributed objects on multicomputers

K Schwan, W Bo - ACM Transactions on Computer Systems (TOCS), 1990 - portal.acm.org

... tems]: Communications **Management**; D.4.8 [Operating Systems]: Performance ... The views presented here are those of the authors and are not the **policies** or views of the US ... Textually, the abstractions in Figure 1 may be described as the following **data** types and their respective ...

[Cited by 25](#) - [Related articles](#) - [All 4 versions](#)

### Monitoring edge-to-edge traffic aggregates in differentiated services networks

JY Kim, JWK Hong, TS Choi - ... of Network and Systems Management, 2001 - Springer

... A mon-itoring database is needed for storing and retrieving the combined and analyzed **data** from MIB II and ... Our work has focused on this lack of **management** functionality. ... There are two process spaces in the Linux operating **system**: the **user space** and the **kernel space**. ...

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### Deciding when to forget in the Elephant file system

DS Santry, MJ Feeley, NC Hutchinson, AC ... - Proceedings of the ..., 1999 - portal.acm.org

... A user can specify any version as a landmark. In addition, the system uses a heuristic to conservatively tag other versions as possible landmarks. The cleaner frees only versions that the Keep- Landmarks policy determines are unlikely to be landmarks. ...

Cited by 236 - Related articles - BL Direct - All 71 versions

### [PDF] Policy-Enhanced Linux

PC Clark - 23rd National Information Systems Security ..., 2000 - Citeseer

... When a subject is a multilevel subject, the subject needs to communicate with the kernel to inform it of the Policy Label to assign to each new object. This can only be accomplished by modifying the creat() system call to accept the additional Policy Label parameter. This ...

Cited by 12 - Related articles - View as HTML - All 17 versions

### Elephant: The file system that never forgets

DJ Santry, MJ Feeley, NC ... - Workshop on Hot ..., 1999 - doi.ieeecomputersociety.org

... When a timestamp tag is not specified, the selected version is determined by either the ... We envision that this system call will be used by a new suite of utility programs that allow ... Elephant cleaner is responsible for reclaiming storage and is directed by the policies outlined in ...

Cited by 55 - Related articles - All 34 versions

### [PDF] Linux security module framework

C Wright, C Cowan, J Morris, S Smalley, G Kroah ... - Ottawa Linux ..., 2002 - Citeseer

... many instances of the same hook throughout the kernel, to ensure that the module is consulted at every place where a system call could "error out ... LSM adds a security field to the task\_struct to allow security policies to label a task with a policy specific security label. ...

Cited by 43 - Related articles - View as HTML - All 39 versions

### Dynamic label binding at run-time

Y Beres, CI Dalton - Proceedings of the 2003 workshop on New ..., 2003 - portal.acm.org

... At this point the kernel can be instrumented to check whether any particular policy, such as access control, applies on the passed label values. In cases when the policy prohibits writes to the intended destination the original system call is skipped over and an error call is ...

Cited by 15 - Related articles - All 2 versions

### Exokernel: An operating system architecture for application-level resource

DR Engler, MF Kaashoek, J O'Toole Jr - Proceedings of the fifteenth ..., 1995 - portal.acm.org

... spaces. Each exported operation can be encapsulated within a system call that checks the ownership of any resources involved. ... relinquish. Policy An exokernel hands over resource policy decisions to library operating systems. ...

Cited by 932 - Related articles - BL Direct - All 125 versions

### [PDF] Multilevel security in the UNIX tradition

MD McIlroy, JA Reeds - Software - Practice and Experience, 1992 - Citeseer

... in privileged code Privileged processes in effect administer their own security policy, and thus ...

the privilege "nocheck," which allows a process to circumvent automatic **label** checking on ... used to detect changes in labels of open files; and a special **system call** (unsafe) identifies ...

Cited by 64 - Related articles - View as HTML - All 13 versions

### Practical domain and type enforcement for UNIX

L Badger, DF Sterne, DL Sherman, ... - ... on Security and ..., 1995 - doi.ieeecomputersociety.org  
... In A automatically creates a subject in B when it does a normal `exec()` **system call** of an ... as Multics [S, Trusted XENIX TMach [lo], etc.) store one L [9, AC **label** or DAC ... Instead, our approach maintains type associations in a UNIX kernel-resident runtime **policy** database that is ...

Cited by 161 - Related articles - BL Direct - All 5 versions

### Compartmented mode workstation: Prototype highlights

JL Berger, J Picciotto, JPL ... - IEEE Transactions ..., 1990 - doi.ieeecomputersociety.org  
... The **system call** that creates new processes has been modified to set the sensitivity level of the child process equal to the sensitivity ... involved." This notion of having the **label** on an object "float up" as data is added to it is similar to the high-water mark **policy** implemented by ...

Cited by 36 - Related articles - All 6 versions

### Countering code-injection attacks with instruction-set randomization

GS Kc, AD Keromytis, V Prevelakis, ... of the 10th ACM conference on ..., 2003 - portal.acm.org  
... I \$1 exit987654 0 In all cases, we must hide low-level (eg, parsing) errors from the remote user, as these could reveal the **tag** and thus ... that cause bad data to propagate in the system, eg, not checking for certain Unix shell characters on input that is passed to the **system()** call. ...

Cited by 237 - Related articles - All 26 versions

### [PDF] Design and implementation of the TrustedBSD MAC framework

R Watson, B Feldman, A Migus, C Vance - Proc. Third DARPA ..., 2003 - Citeseer  
... As with other data fields in the credential, the **label** field is protected by an "immutable once shared" **policy**—the credential **label** may be ... credential data in a threaded environment, and ensures that credential used by a thread is consistent for the duration of a **system call**. 7.9. ...

Cited by 13 - Related articles - View as HTML - All 21 versions

### [PDF] Rule-Set Modeling of Trusted Computer System

L LaPadula - ABRAMS M, JAJODIA S, PODELL H. Information ..., 1995 - madchat.fr  
... On the other hand, a single rule of operation that models a **system call** might use several requests. ... Then, if the search is valid, it again would appeal to the Access Rules for a **policy** decision on creating the file. The set of requests we have defined here is not minimal. ...

Cited by 17 - Related articles - View as HTML - All 7 versions

### The SimpleScalar tool set, version 2.0

D Burger, TM Austin - ACM SIGARCH Computer Architecture News, 1997 - portal.acm.org  
... configures the data TLB. configures the instruction TLB. flush all caches on a **system call**; (<boolean> = 01 1 1 tree 1 TRUE 1 false 1 FALSE). ... <assoc> associativity of the cache (power of two). <repr> replacement **policy** (1 1 f l r), where l = LRU, f = FIFO, r = random replacement. ...

Cited by 1810 - Related articles - BL Direct - All 139 versions

### [PDF] Low-overhead software dynamic translation

K Scott, J Davidson, K Skadron - University of Virginia, Charlottesville, VA, 2001 - Citeseer  
... indirect branch target in the appropriate IBTC. If the branch target matches the **tag** in the IBTC ... gram may be terminated or other appropriate action taken. As was the case with buffer overflow safety checker, if the overhead of the **system call policy** ...

Cited by 21 - Related articles - View as HTML - All 9 versions

### [PDF] Toward a universal integrity model

LJ LaPadula, JG Williams - IEEE Computer Security Foundations ..., 1991 - ccsl.carleton.ca

... Open-file functional Design description; for example, UNIX open **system call** [f] - Functional ... and discretionary access control **policies** typically defined in a security **policy** model, the ... Model also addresses information labels with markings, an internal floating **label** mechanism, and ...  
Cited by 6 - Related articles - All 3 versions

[PDF] Modular specification of interaction **policies** in distributed computing  
DC Sarman - University of Illinois at Urbana-Champaign, Champaign ..., 1996 - Citeseer  
... This thesis demonstrates that meta-level specification of interaction **policies** enables modular description of component interaction **policies**, as well as customization of **policy** implementations. ... The factors that determine a **policy's** implementation may vary between components. ...  
Cited by 42 - Related articles - View as HTML - All 9 versions

A flexible and dynamic access control **policy** framework for an active networking ...  
A Hess, G Schaefer - Proc. of Kommunikation in Verteilten ..., 2003 - books.google.com  
... RAD of the service and the DRAD belonging to the corresponding trust **label** must be ... After intercepting a socket **system call** the security kernel module made a lookup in the local ... security **policies** inside the corresponding database and the position of the security **policy** inside the ...  
Cited by 6 - Related articles - All 15 versions

Implementing a cache for a high-performance GaAs microprocessor  
OA Olukotun, TN Mudge, RB Brown - Proceedings of the 18th ..., 1991 - portal.acm.org  
... We present a variant of a write-through **policy** called write-only which performs almost as well as subblock placement without the use of extra valid bits. ... Hence, cache **tag** lookup does not require any bit translation and occurs in parallel with the virtual page number translation. ...  
Cited by 13 - Related articles - All 3 versions

Extended labeling **policies** for enhanced application support  
J Picciotto, RD Graubart - Computers & Security, 1994 - Elsevier  
... 7 User Process 4. **System call** return 1. **System call** USER PROCESS SPACE 3. FGL response 2 ... For example, an application that downgrades a file by lowering the file's **label** will not ... That these applications fail is not surprising; if a system's security **policy** changes, applications ...  
Cited by 8 - Related articles - All 3 versions

[PDF] Execution **Policies** Research and Implementation  
PC Clark, TE Levin, GE Irvine ..., 2003 - edocs.nps.edu  
... chmod mv sync shutdown csh rm chown reboot cp rmdir **label** vi ls ps more Page 11. ... Support of this feature would require at least one new **system call**, as well as changes to the process scheduling logic. Relation of Execution **Policy** to Traditional MAC **Policy** ...  
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